## SIEMENS

## Data sheet

## 3RP2505-1BB30



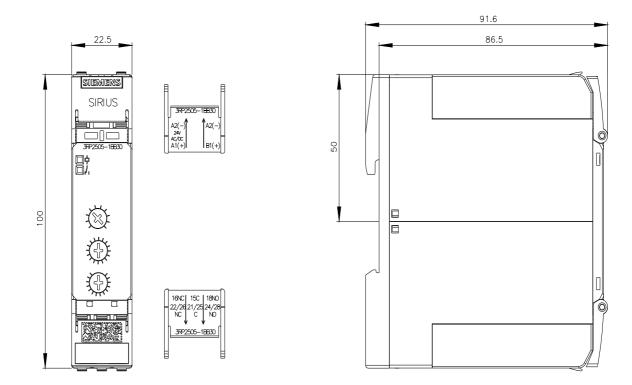
Timing relay, Multifunction 2 change-over contacts, 27 functions 7 time ranges (0.05 s...100 h) 24 V AC/DC at 50/60 Hz AC with LED, Screw terminal

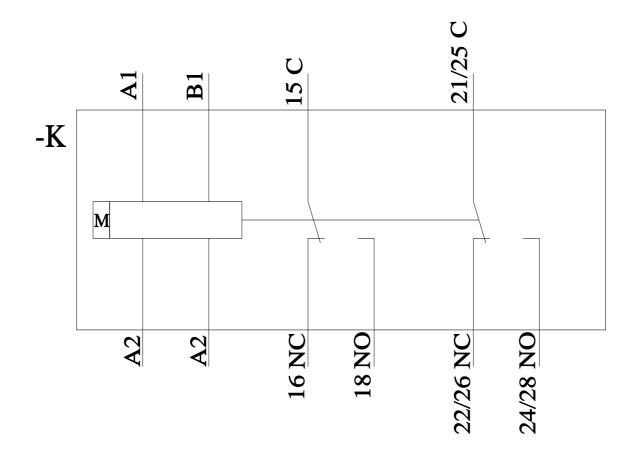
TEXT DESCRIPTION	
product brand name	SIRIUS
product designation	timing relay
design of the product	27 functions
product type designation	3RP25
General technical data	
product component	
<ul> <li>relay output</li> </ul>	Yes
<ul> <li>semi-conductor output</li> </ul>	No
product extension required remote control	No
product extension optional remote control	No
power loss [W] maximum	2 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 ∨
test voltage for isolation test	2.5 kV
degree of pollution	3
surge voltage resistance rated value	4 000 V
protection class IP	IP20
shock resistance according to IEC 60068-2-27	11g / 15 ms
vibration resistance according to IEC 60068-2-6	10 55 Hz / 0.35 mm
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
adjustable time	0.05 s 100 h
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	5 A
minimum ON period	35 ms
recovery time	150 ms
reference code according to IEC 81346-2	К
relative repeat accuracy	1 %; +/-
influence of the surrounding temperature	1% in the whole temperature range to the set runtime
power supply influence	1% in the whole voltage range to the set runtime
Substance Prohibitance (Date)	09/12/2014
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	24 V
<ul> <li>at 60 Hz rated value</li> </ul>	24 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1	
<ul> <li>at DC rated value</li> </ul>	24 V
operating range factor control supply voltage rated value at DC	

<ul> <li>initial value</li> </ul>	0.85
<ul> <li>full-scale value</li> </ul>	1.1
operating range factor control supply voltage rated	
value at AC at 50 Hz	
<ul> <li>initial value</li> </ul>	0.85
<ul> <li>full-scale value</li> </ul>	1.1
operating range factor control supply voltage rated	
value at AC at 60 Hz	
<ul> <li>initial value</li> </ul>	0.85
<ul> <li>full-scale value</li> </ul>	1.1
inrush current peak	
• at 24 V	2 A
duration of inrush current peak	
• at 24 V	1 ms
Switching Function	
switching function	
ON-delay	Yes
ON-delay/instantaneous contact	Yes
-	Yes
passing make contact     passing make contact/instantaneous contact	
passing make contact/instantaneous contact	Yes
• OFF delay	No
switching function	
<ul> <li>flashing symmetrically with interval start/instantaneous</li> </ul>	Yes
<ul> <li>flashing symmetrically with interval start</li> </ul>	Yes
<ul> <li>flashing symmetrically with pulse start/instantaneous</li> </ul>	Yes
<ul> <li>flashing symmetrically with pulse start</li> </ul>	Yes
<ul> <li>flashing asymmetrically with interval start</li> </ul>	No
<ul> <li>flashing asymmetrically with nulse start</li> </ul>	No
	NO
switching function	NI-
star-delta circuit with delay time	No
star-delta circuit	Yes
switching function with control signal	
<ul> <li>additive ON-delay</li> </ul>	Yes
<ul> <li>passing break contact</li> </ul>	Yes
<ul> <li>passing break contact/instantaneous</li> </ul>	Yes
<ul> <li>OFF delay</li> </ul>	Yes
<ul> <li>OFF delay/instantaneous</li> </ul>	Yes
<ul> <li>pulse delayed</li> </ul>	Yes
<ul> <li>pulse delayed/instantaneous</li> </ul>	
	Yes
pulse-shaping	Yes Yes
pulse-shaping	
<ul><li>pulse-shaping</li><li>pulse-shaping/instantaneous</li></ul>	Yes Yes
<ul><li> pulse-shaping</li><li> pulse-shaping/instantaneous</li><li> additive ON-delay/instantaneous</li></ul>	Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> </ul>	Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> </ul>	Yes Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> </ul>	Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control</li> </ul>	Yes Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> </ul> switching function of interval relay with control signal <ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	Yes Yes Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control</li> </ul>	Yes Yes Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> </ul> switching function of interval relay with control signal <ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	Yes Yes Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control</li> </ul>	Yes Yes Yes Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> </ul>	Yes Yes Yes Yes Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with deactivated control signal</li> <li>retriggerable with deactivated control signal</li> <li>fort-circuit protection</li> <li>design of the fuse link for short-circuit protection of the</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>design of the control terminal non-floating</li> <li>Short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>fetriggerable with deactivated control signal</li> <li>stantaneous contact</li> <li>retriggerable with deactivated control signal</li> <li>design of the control terminal non-floating</li> <li>Short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> <li>Auxiliary circuit</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>fetrotriggerable with deactivated control signal</li> <li>stort-circuit protection</li> <li>design of the control terminal non-floating</li> <li>Short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> <li>Auxiliary circuit</li> <li>material of switching contacts</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>retriggerable with deactivated control signal</li> <li>design of the control terminal non-floating</li> <li>Short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> <li>Auxiliary circuit</li> <li>material of switching contacts</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes Yes Tuse gL/gG: 4 A
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>design of the control terminal non-floating</li> <li>Short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> <li>Auxiliary circuit</li> <li>material of switching contacts</li> <li>number of NC contacts</li> <li>delayed switching</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>retriggerable with deactivated control signal</li> <li>design of the control terminal non-floating</li> <li>Short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> <li>Auxiliary circuit</li> <li>material of switching contacts</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes Yes Tuse gL/gG: 4 A

<ul> <li>delayed switching</li> </ul>	0
<ul> <li>instantaneous contact</li> </ul>	0
number of CO contacts	
<ul> <li>delayed switching</li> </ul>	2
<ul> <li>instantaneous contact</li> </ul>	0
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1A
• at 125 V	0.2 A
• at 250 V	0.1 A
operating frequency with 3RT2 contactor maximum	5 000 1/h
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 $1/5$ mA)
contact action of conditions contacts according to 10	V, 5 mA)
contact rating of auxiliary contacts according to UL	R300 / B300
switching capacity current with inductive load	0.01 3 A
Inputs/ Outputs	
product function	
<ul> <li>at the relay outputs switchover delayed/without</li> </ul>	Yes
delay	
non-volatile	No
Electromagnetic compatibility	
EMC emitted interference according to IEC 61812-1	ambience A (industrial sector)
EMC immunity according to IEC 61812-1	corresponds to degree of severity 3
conducted interference	······································
due to burst according to IEC 61000-4-4	2 kV network connection / 1 kV control connection
due to conductor-earth surge according to IEC	2 kV
61000-4-5	ZNV
<ul> <li>due to conductor-conductor surge according to IEC</li> </ul>	1 kV
61000-4-5	
field-based interference according to IEC 61000-4-3	10 V/m
-	4 kV contact discharge / 8 kV air discharge
electrostatic discharge according to IEC 61000-4-2	+ RV bontabl abonarge / b RV an abonarge
electrostatic discharge according to IEC 61000-4-2 Safety related data	
Safety related data	
	IP20
Safety related data protection class IP on the front according to IEC 60529	
Safety related data protection class IP on the front according to IEC 60529 type of insulation	IP20 Basic insulation
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1	IP20
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals	IP20 Basic insulation none
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary	IP20 Basic insulation
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit	IP20 Basic insulation none Yes
Safety related data         protection class IP on the front according to IEC         60529         type of insulation         category according to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary         and control circuit         type of electrical connection for auxiliary and control circuit	IP20 Basic insulation none
Safety related data         protection class IP on the front according to IEC         60529         type of insulation         category according to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary         and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections	IP20 Basic insulation none Yes screw-type terminals
Safety related data         protection class IP on the front according to IEC         60529         type of insulation         category according to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary         and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )
Safety related data         protection class IP on the front according to IEC         60529         type of insulation         category according to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary         and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )
Safety related data         protection class IP on the front according to IEC         60529         type of insulation         category according to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • at AWG cables solid	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14)
Safety related data         protection class IP on the front according to IEC         60529         type of insulation         category according to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary         and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • at AWG cables solid         • at AWG cables stranded	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )
Safety related data         protection class IP on the front according to IEC         60529         type of insulation         category according to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary         and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • at AWG cables solid         • at AWG cables stranded         connectable conductor cross-sections	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14)
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup>
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14)
Safety related data         protection class IP on the front according to IEC         60529         type of insulation         category according to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> </ul>	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup>
Safety related data         protection class IP on the front according to IEC         60529         type of insulation         category according to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> </ul> <li>AWG number as coded connectable conductor cross section</li>	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup>
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 20 12
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • solid • stranded	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 20 12 20 12
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 20 12 20 12 20 14 0.6 0.8 N·m
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • solid • stranded with core end processing • solid • stranded tightening torque design of the thread of the connection screw	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 20 12 20 12
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 20 12 20 12 20 14 0.6 0.8 N·m
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • solid • stranded with core end processing • solid • stranded tightening torque design of the thread of the connection screw	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 20 12 20 12 20 14 0.6 0.8 N·m
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 20 12 20 12 20 14 0.6 0.8 N·m M3
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 20 12 20 14 0.6 0.8 N·m M3
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position fastening method	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 20 12 20 12 any screw and snap-on mounting onto 35 mm DIN rail
Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position fastening method height width	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 20 12 20 14 0.6 0.8 N·m M3
Safety related data         protection class IP on the front according to IEC         60529         type of insulation         category according to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> </ul> <li>AWG number as coded connectable conductor cross section         <ul> <li>solid</li> <li>stranded</li> <li>tightening torque</li> <li>design of the thread of the connection screw</li> </ul> </li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li>	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 20 12 20 14 0.6 0.8 N·m M3
Safety related data         protection class IP on the front according to IEC         60529         type of insulation         category according to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>asolid</li> <li>at AWG cables stranded</li> </ul> KWG number as coded connectable conductor cross section <ul> <li>solid</li> <li>stranded</li> <li>tightening torque</li> <li>design of the thread of the connection screw</li> </ul> Installation/ mounting/ dimensions         mounting position         fastening method         height	IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 20 12 20 14 0.6 0.8 N·m M3

— forwards		0 mm		
— backwards		0 mm		
— upwards — downwards		0 mm 0 mm		
— at the side				
		0 mm		
<ul> <li>for grounded parts</li> <li>forwards</li> </ul>		0 mm		
— lorwards — backwards		0 mm 0 mm		
		•		
— upwards — at the side		0 mm 0 mm		
— downwards		0 mm		
for live parts		0 mm		
<ul> <li>for live parts</li> <li>forwards</li> </ul>		0 mm		
— lorwards — backwards		0 mm 0 mm		
— upwards — downwards		0 mm 0 mm		
— at the side		0 mm		
		0 mm		
Ambient conditions				
installation altitude at height above sea leve	el maximum	2 000 m		
ambient temperature				
<ul> <li>during operation</li> </ul>		-25 +60 °C		
<ul> <li>during storage</li> </ul>		-40 +85 °C		
<ul> <li>during transport</li> </ul>		-40 +85 °C		
relative humidity during operation		10 95 %		
Certificates/ approvals				
General Product Approval				EMC
	Confirmatio	on on		<b>A</b>
		(Ui)	LUI	<i>Γ</i> Ω
			ENL	<u>v</u>
CSA CCC		UL		RCM
Declaration of Conformity	Test Certifica	ates Marine / Shipping		
Declaration of Conformity	Test Certifica	ates Marine / Shipping		
				æ
	Test Certifica Type Test Cer ates/Test Rep	rtific-		6
	Type Test Cer	rtific-	Hoyd's Register	
	Type Test Cer	rtific-	Hoyd's Register uis	PRS
	Type Test Cer	rtific-		PRS
	Type Test Cer	rtific-		PRS
UK CE CA EG-Konf.	Type Test Cer	rtific- port		PRS
	Type Test Cer	rtific-		PRS
UK CE CA EG-Konf.	Type Test Cer	rtific- port BUREAU VERITAS		PRS
UK CE CA EG-Konf.	Type Test Cer	rtific- port		PRS
UK CE CA EG-Konf.	Type Test Cer	rtific- port BUREAU VERITAS		PRS
UK CE CA EG-Konf.	Type Test Cer	rtific- port BUREAU VERITAS		PRS
UK CE CA EG-Konf.	Type Test Cer ates/Test Rep	rtific- port BUREAU VERITAS		PRS
UK CE CA EG-Konf.	Type Test Cer ates/Test Rep	rtific- port BUREAU VERITAS		PRS
UK CE CA EG-Konf.	Type Test Cer ates/Test Rep	rtific- port BUREAU VERITAS		PRS
UK CE CA EG-Konf.	Type Test Cer ates/Test Rep	rtific- port BUREAU VERITAS		PRS
UK       EGE         Marine / Shipping         Image:	Type Test Cer ates/Test Rep	tific- port Other Confirmation		Prs
UK       EGE         Marine / Shipping         Marine / Shipping         Image: Shipping         Image	Type Test Cer ates/Test Rep	tific- port Other Confirmation		PRS
UK       EGE         Marine / Shipping         Marine / Shipping         Image: Shipping         Image	Type Test Cer ates/Test Rep	rtific- port other Confirmation		PRS
UKS       EGE         Marine / Shipping         Marine / Shipping         Image: Shipping         Imag	Type Test Cer ates/Test Rep	rtific- port other Confirmation		PRS
UKS       EGE         Marine / Shipping         Marine / Shipping         Image: State of the s	Type Test Cer ates/Test Rep	rtific- port other Confirmation )	LRS	PRS
UKS       EGE         Marine / Shipping         Marine / Shipping         Image: State of the s	Type Test Cer ates/Test Rep Convectories (Convectories) In the second se	rtific- port other Confirmation ) :?mlfb=3RP2505-1BB30 It.aspx?lang=en&mlfb=3RP250	LRS	PRS
UK       EGE         Marine / Shipping         Marine / Shipping         Image: State of the st	Type Test Cer ates/Test Rep Convector Intervention	rtific- port other Confirmation ) :?mlfb=3RP2505-1BB30 It.aspx?lang=en&mlfb=3RP250 FAQs,)	LRS	PRS
UKS       EGE         Marine / Shipping         Marine / Shipping         Image: State of the s	Type Test Cer ates/Test Rep Interpretation of the state o	rtific- port other Confirmation ) :?mlfb=3RP2505-1BB30 It.aspx?lang=en&mlfb=3RP250 FAQs,) 1BB30	URS	PRS
UKS       EGE         Marine / Shipping         Marine / Shipping         Image: State of the s	Type Test Cer ates/Test Rep Contraction Co	rtific- port  other  Confirmation )  Confirmation ) )  Confirmation ) )  Confirmation )) ) ) ) )))))))))))	URS	PRS
UKS       EGE         Marine / Shipping         Marine / Shipping         Image: Shipping         Imag	Type Test Cer ates/Test Rep intervention of the set of	rtific- port  other  Confirmation )  Confirmation )) ) ))) ) ))	URS	Prs
UKS       GE         Marine / Shipping         Marine / Shipping         Image: Shipping         Image	Type Test Cer ates/Test Rep intervention of the set of	rtific- port  other  Confirmation )  Confirmation )) ) ))) ) ))	URS	Prs





## last modified:

11/21/2022 🖸